



## Practice

### 3.4 Solving Multistep Equations

Solve each equation.

1.  $4x + 7 = 3x + 18$  \_\_\_\_\_

2.  $5y - 5 = 7y - 3$  \_\_\_\_\_

3.  $4a - 6 = -2a + 14$  \_\_\_\_\_

4.  $4m - 5 = 3m + 7$  \_\_\_\_\_

5.  $5x - 7 = 3x + 2$  \_\_\_\_\_

6.  $10y + 10 = 4 - 4y$  \_\_\_\_\_

7.  $13 - 8v = 5v + 2$  \_\_\_\_\_

8.  $7 - 5y = 4y - 2$  \_\_\_\_\_

9.  $2 + 3y = 4y - 1$  \_\_\_\_\_

10.  $-7 - 3z = 8 + 2z$  \_\_\_\_\_

11.  $7w - 19 = 5w - 5$  \_\_\_\_\_

12.  $28 + 2a = 5a + 7$  \_\_\_\_\_

13.  $5x + 32 = 8 - x$  \_\_\_\_\_

14.  $m - 12 = 3m + 4$  \_\_\_\_\_

15.  $2(x + 1) = 3x - 3$  \_\_\_\_\_

16.  $5(3x + 5) = 4x - 8$  \_\_\_\_\_

17.  $2r - 4 = 2(6 - 7r)$  \_\_\_\_\_

18.  $8y - 3 = 5(2y + 1)$  \_\_\_\_\_

19.  $2z - 5(z + 2) = -8 - 2z$  \_\_\_\_\_

20.  $5t - 2(5 + 4t) = 3 + t - 8$  \_\_\_\_\_

21.  $15n + 25 = 2(n - 7)$  \_\_\_\_\_

22.  $4y + 2 = 3(6 - 4y)$  \_\_\_\_\_

23.  $2(3x - 1) = 3(x + 2)$  \_\_\_\_\_

24.  $9y - 8 + 4y = 7y + 16$  \_\_\_\_\_

25.  $14d - 22 + 5d = 12d - 8$  \_\_\_\_\_

26.  $23x + 34 = 23 - 12x + 7x$  \_\_\_\_\_

27.  $29 - 3s = 23(2s - 3)$  \_\_\_\_\_

28.  $12 - 5(2w - 13) = 3(2w - 5)$  \_\_\_\_\_

29.  $8 + 5(3q - 4) = 7(q - 12)$  \_\_\_\_\_

30.  $2(y + 2) + y = 19 - (2y + 3)$  \_\_\_\_\_

31.  $0.3w - 4 = 0.8 - 0.2w$  \_\_\_\_\_

32.  $2.1z = 1.2z - 9$  \_\_\_\_\_

33.  $12 + 2.1w = 1.3w$  \_\_\_\_\_

34.  $3.5(j + 4) = 1.4(16 + j)$  \_\_\_\_\_

35.  $4.5 - 1.9m = 20.1 - 2m$  \_\_\_\_\_

36.  $x - 0.09 = 2.22 - 0.1x$  \_\_\_\_\_

37.  $\frac{1}{2}x + 7 = \frac{3}{4}x - 4$  \_\_\_\_\_

38.  $\frac{1}{4}y = \frac{2}{5}y - 1$  \_\_\_\_\_

39.  $\frac{1}{3}z = 3z - \frac{4}{5}$  \_\_\_\_\_

40.  $\frac{a}{2} - \frac{1}{3} = \frac{a}{3} - \frac{1}{2}$  \_\_\_\_\_

41.  $2\left(\frac{1}{3}w + \frac{1}{4}\right) = 4 + \frac{1}{3}w$  \_\_\_\_\_

42.  $\frac{1}{4}(7 + 3r) = -\frac{1}{8}r$  \_\_\_\_\_